## Brady R. Cornett

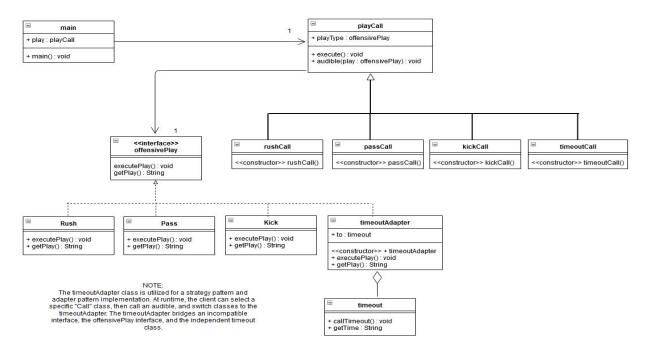
Software Engineering (ESOF-322)

Assignment 3

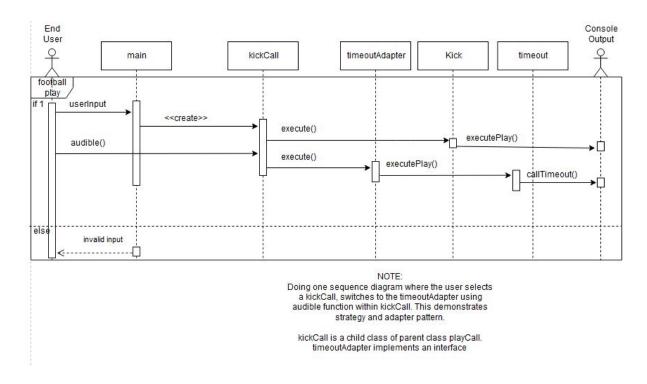
09/26/2019

## **Exercise 1:**

a)

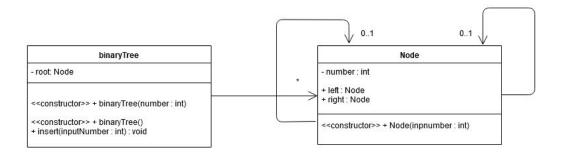


b)



## Exercise 2:

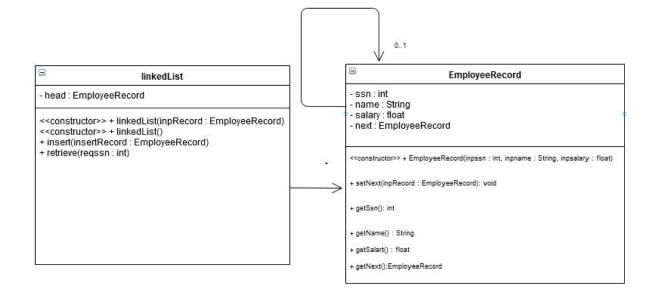
- a) Factor: 32/45 = .71, Man-hours: 45 + 15 + 12 = 72. 72\*.71 = 51.1 Story Points
- b) You can assume the focus factor of a brand new team to be around .7 or 70%.
- c) Another way you could evaluate story points is asking each team member for their input and averaging the number. The problem with this is it takes away the open discussion that poker provides and veteran members may have different views on implementation which could skew the number.
- d) and e)



```
class binaryTree {
  private Node root;
  binaryTree(int number){
     root = new Node(number);
  binaryTree(){
     root = null;
  public void insert(int inputNumber){
     if (root == null){
        root = new Node(inputNumber);
     }else {
        Node iter = root;
        while (iter.left != null) {
          iter = iter.left;
        iter.left = new Node(inputNumber);
  }
}
```

```
class Node{
   private int number;
   Node left;
   Node right;
   public Node(int inpnumber){
      number = inpnumber;
      left = null;
      right = null;
   }
}
```

## f) and g)



```
public class linkedList {
  private EmployeeRecord head;
  public linkedList(EmployeeRecord inpRecord){
     head = inpRecord;
  public linkedList(){
     head = null;
  public void insert(EmployeeRecord insertRecord){
     if (head == null) {
       head = insertRecord;
    }else{
       EmployeeRecord iter = head;
       while(iter.getNext() != null){
          iter = iter.getNext();
       iter.setNext(insertRecord);
    }
  }
  public void retrieve(int reqssn){
     if (head == null){
       System.out.println("Empty");
     }else {
       EmployeeRecord iter = head;
       while(iter != null){
          if (iter.getSsn() == reqssn){
            System.out.println(iter.getName());
            break;
          }else{
            iter = iter.getNext();
          }
       }
    }
class EmployeeRecord{
  private int ssn; private String name; private float salary; private EmployeeRecord next;
  public EmployeeRecord(int inpssn, String inpname, float inpsalary){
     this.ssn = inpssn;
     this.name = inpname;
     this.salary = inpsalary;
  public void setNext(EmployeeRecord inpRecord){
     this.next = inpRecord;
  public int getSsn(){
     return this.ssn;
```

```
public String getName(){
    return this.name;
}
public float getSalary(){
    return this.salary;
}
public EmployeeRecord getNext(){
    return this.next;
}
```